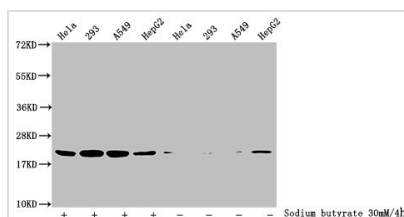




# 2-hydroxyisobutyryl-HIST1H1C (K109) Antibody

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-PA010378OA109hibHU                                                                         |
| <b>Storage</b>             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.                                  |
| <b>Uniprot No.</b>         | P16403                                                                                         |
| <b>Immunogen</b>           | Peptide sequence around site of 2-hydroxyisobutyryl-Lys (109) derived from Human Histone H1.2  |
| <b>Raised In</b>           | Rabbit                                                                                         |
| <b>Species Reactivity</b>  | Human                                                                                          |
| <b>Tested Applications</b> | ELISA, WB, ICC, IF, ChIP; Recommended dilution: WB:1:100-1:1000, ICC:1:20-1:200, IF:1:20-1:200 |
| <b>Form</b>                | Liquid                                                                                         |
| <b>Conjugate</b>           | Non-conjugated                                                                                 |
| <b>Storage Buffer</b>      | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, pH 7.4               |
| <b>Purification Method</b> | Antigen Affinity Purified                                                                      |
| <b>Isotype</b>             | IgG                                                                                            |
| <b>Clonality</b>           | Polyclonal                                                                                     |
| <b>Alias</b>               | Histone H1.2, Histone H1c, Histone H1d, Histone H1s-1, HIST1H1C, H1F2                          |
| <b>Immunogen Species</b>   | Homo sapiens (Human)                                                                           |
| <b>Research Area</b>       | Epigenetics and Nuclear Signaling                                                              |
| <b>Target Names</b>        | HIST1H1C                                                                                       |

## Image



### Western Blot

Detected samples: HeLa whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate; Untreated (-) or treated (+) with 30mM sodium butyrate for 4h

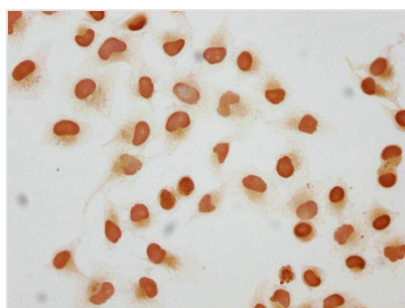
All lanes: HIST1H1C antibody at 3.5µg/ml

### Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 22 kDa

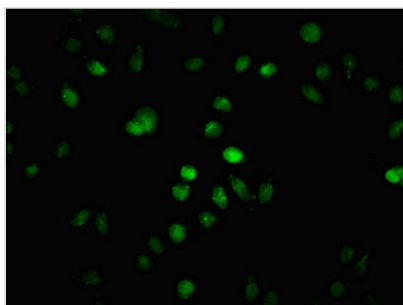
Observed band size: 22 kDa



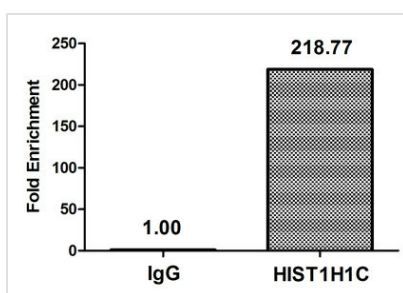
Immunocytochemistry analysis of CSB-PA010378OA109hibHU diluted at 1:50 and staining in HeLa cells (treated with 30mM sodium butyrate for 4h) performed on a Leica Bond<sup>TM</sup> system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody



and visualized using an HRP conjugated SP system.



Immunofluorescence staining of HeLa cells (treated with 30mM sodium butyrate for 4h) with CSB-PA010378OA109hibHU at 1:25, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Chromatin Immunoprecipitation HeLa ( $4 \times 10^6$ , treated with 30mM sodium butyrate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H1C (CSB-PA010378OA109hibHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.